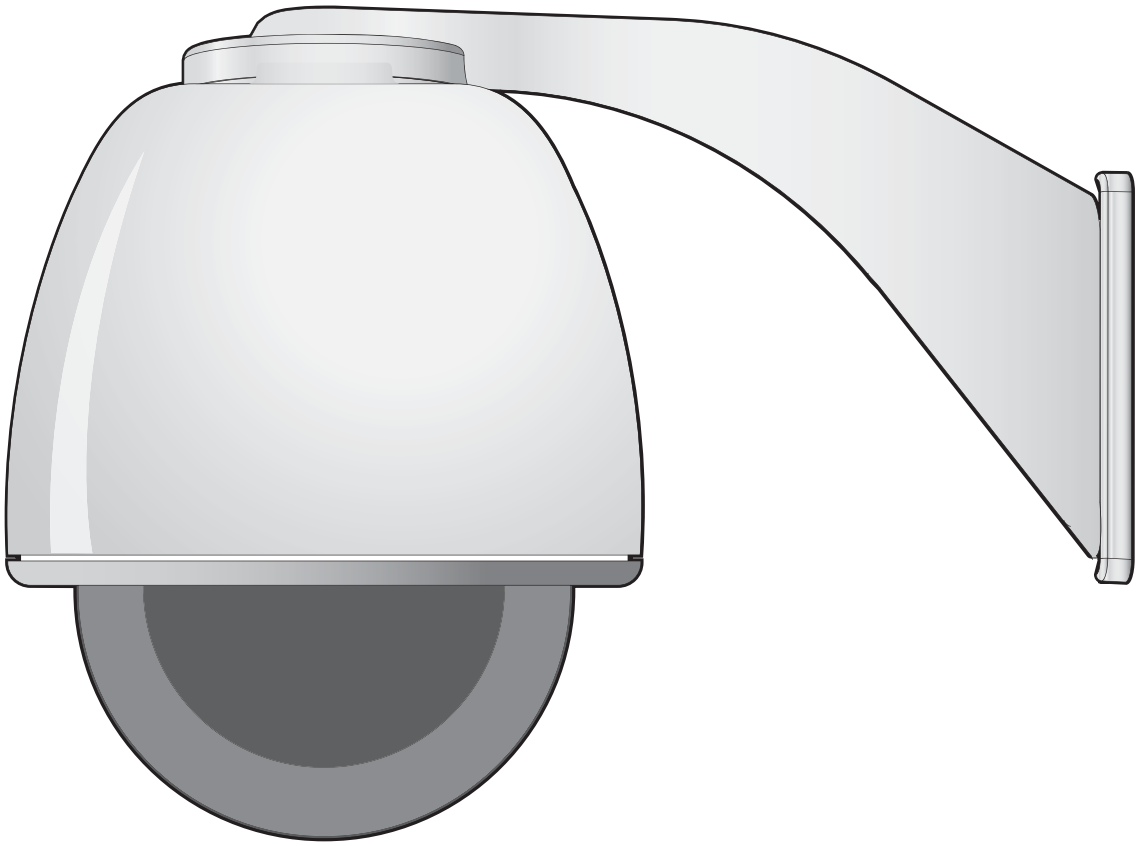
UltraView PTZ

User Manual



interlogix

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Manufacturer

UTC Fire & Security Americas Corporation, Inc.

2955 Red Hill Ave, Costa Mesa, CA 92626, USA

Certification

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Preface

This is the Interlogix *UltraView PTZ User Manual*. This document includes an overview of the product and detailed instructions explaining:

- how to access the menus; and
- how to customize the settings.

There is also information describing how to contact technical support if you have questions or concerns.

To use this document effectively, you should have a basic knowledge of CCTV systems and components.

Read these instructions and all ancillary documentation entirely before installing or operating this product. The most current versions of this and related documentation may be found on our website at www.interlogix.com.

Note: A qualified service person, complying with all applicable codes, should perform all required hardware installation.

Conventions used in this document

The following conventions are used in this document:

Bold	Menu items and buttons.
Italic	Emphasis of an instruction or point; special terms.
	File names, path names, windows, panes, tabs, fields, variables, and other GUI elements.
	Titles of books and various documents.
Blue italic	(Electronic version.) Hyperlinks to cross-references, related topics, and URL addresses.
`Monospace`	Text that displays on the computer screen.
	Programming or coding sequences.

Safety terms and symbols

These terms may appear in this manual:

CAUTION: *Cautions* identify conditions or practices that may result in damage to the equipment or other property.

WARNING: Warnings identify conditions or practices that could result in equipment damage or serious personal injury.

Chapter 1 Programming

This chapter provides an overview of your UltraView PTZ menu system, including steps you may want to perform before you begin using your UltraView PTZ.

In this chapter:

Introduction 2
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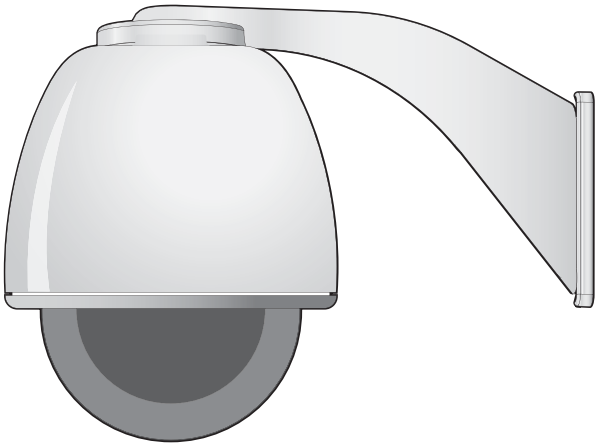
Introduction

This manual contains programming instructions for the UltraView PTZ series pan/tilt/zoom cameras (*Figure 1*). The most common UltraView PTZ programming options and screen sequences are illustrated. Notations indicate where options may differ among camera models.

Figure 1. UltraView PTZ dome with wall-mount arm

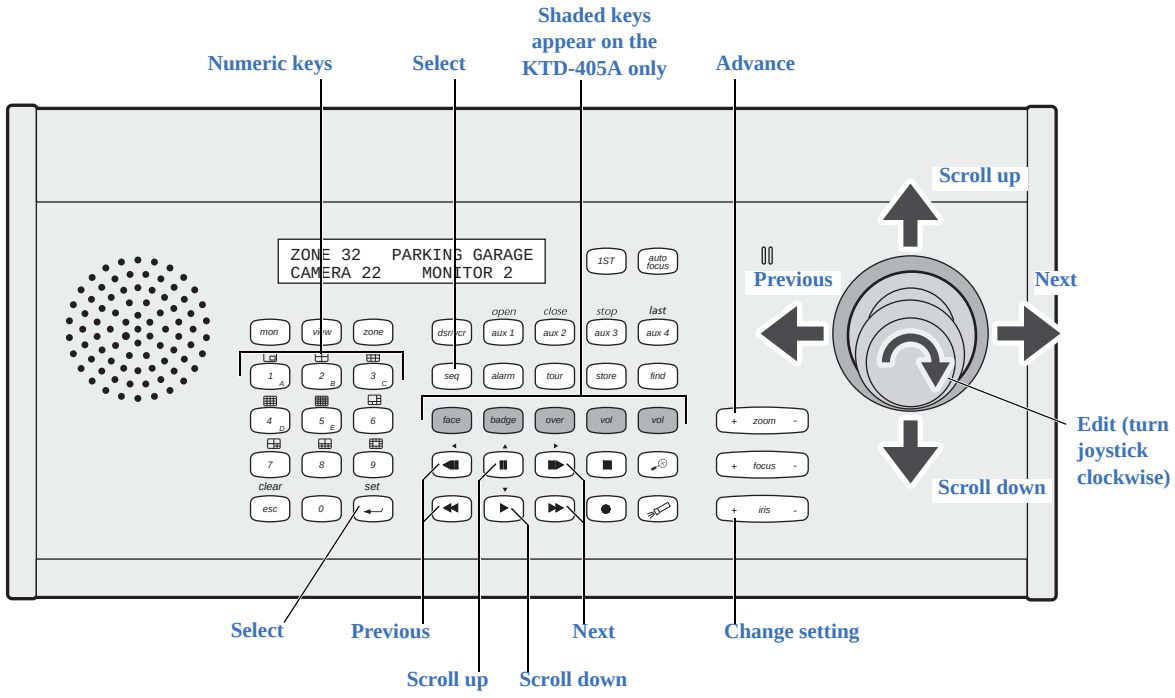


UltraView PTZ supports many protocols to work with various keypad controllers, DVRs, and other video surveillance equipment. Please refer to *Appendix B* of the *UltraView PTZ Installation Manual* for the details on supported protocols.

Menu navigation

We use the KTD-405 keypad controller (*Figure 2*) in this manual to explain the features of UltraView PTZ because of the KTD-405's ability to control all of the UltraView PTZ's advanced features. (For detailed keypad instructions, refer to the *KTD-405/KTD-405A/KTD-405-2D Controller Keypad User Manual*.)

Figure 2. Navigating with a KTD-405/405A/KTD-405-2D keypad



You can use multiple methods to navigate through the menu system with your keypad:

Joystick navigation. Use the keypad joystick to move through menu items. When you have the desired menu item selected, move the joystick to the right to advance through the available options. Once you are in a menu, move the joystick to the left to back out of that menu.

Button navigation. Use the pause button to scroll up; play to scroll down; fast forward or forward frame for the next item; fast rewind or reverse frame for the previous item. When you have navigated to the item you want, use seq, set, or fast forward to select that item. The arrow indicator on the UltraView PTZ menu identifies the property that will be changed.

To change a setting, press the **iris +** button. The setting will be saved when you advance to the next menu. Alternatively, you *may* be able to use the **zoom +** button to advance, depending on your protocol. (Use of shortcuts on the KTD-405 keypad to navigate and select may not work with all protocols.)

Numerical navigation. Press the number associated with a menu item to select or highlight that option or proceed to that menu. You will also use the number keys to enter numerical data, such as passwords.

Note: When you press the number associated with an option and there is a value to set, you will automatically be asked to set that value. If there is no value to set, when you press the number associated with an option, that option will be selected and you will proceed to the next menu.

Programming shortcuts

This section lists the keypad programming shortcuts for presets and tours. For detailed instructions, refer to the *KTD-405/KTD-405A/KTD-405-2D Controller Keypad User Manual*.

Presets:

- To store: Position the camera. Press the **store** key and then enter the preset number. Press **store** again.
- To call up: Press **find** and enter the preset number.

Shadow Tours:

- To store: Press and hold the **esc** key and then press the **tour** key. Then press the + side of the zoom, focus, or iris key to start recording a shadow tour. Athe end of the shadow tour, press **esc**.

Accessing programming menus

To access the programming menus using the keys on a KTD-405 keypad, do the following:

1. Switch the keypad to the camera site you want to program.
2. Press and hold the **set** key until *Enter programming code* displays.
3. At the code entry display, enter the programming code **9**, **5**, **1**. Then press the **seq** button.
4. At the first menu display, press **3**.
5. At the *Enter camera site number* screen, enter the site number of the camera you wish to program.

At this point, you have access to the UltraView PTZ programming menus. For more information on the programming menus, see *Menu navigation* on page 5.

Note: If you are prompted to enter a password, refer to *Passwords* on page 33 for the default pass code key.

Menu navigation

The UltraView PTZ menu structure generally follows an alphabetical order (in English) of the functions and features that can be set with a few exceptions. *Table 1* shows the order of the menu screens and their relationship to each other, as well as the options and defaults for each screen.

Table 1. UltraView PTZ menu hierarchy

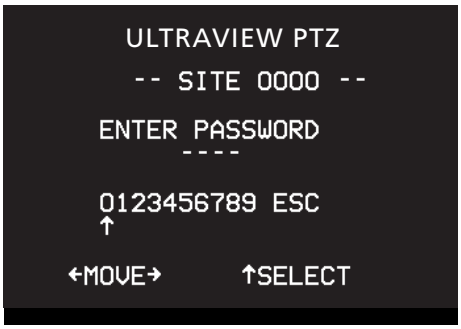
- Password (page 6).
- Product information (page 6).
- System information (page 6).
- Memory management (page 7).
  - Copy housing to PTZ
  - Copy PTZ to housing
- Program select (page 8).
  - Setup (page 8)
    - Clear memory (page 8).
    - Automatic slow shutter (page 9).
    - Autopan speed (page 9).
    - Auto Return (page 10).
    - Azimuth indicator (page 10).
    - Day/night switch (page 12).
    - Electronic zoom (page 12).
    - Exposure control (page 13).
    - Image freeze (page 13).
    - Image stabilization (page 13)
    - Lens initialization. (page 14)
    - Lift/gain (page 14).
    - Max tilt/pan speed (page 15).
    - Preset speed (page 15).
    - Proportional speed (page 16).
    - Quick spin (page 16).
    - Serial update (page 16)
    - Shutter speed (page 17). NTSC.
    - Shutter speed (page 17). PAL.
    - Site number display (page 17).
    - Synchronization (page 18).
    - Temperature display (page 18).
    - White balance (page 19).
    - Wide dynamic range (WDR) (page 19).
    - Zoom speed control (page 19).
    - Zoom variable tilt (page 20)
  - Presets (page 20).
  - Titles/areas (page 21).
    - Preset titles.
    - Area and titles.
    - Camera title.
    - Tour title.
  - Current status (page 26).
  - Tours (page 27).
    - ShadowTours (page 27).
    - Preset tours (page 29).
  - Additional menus (page 31).
    - Privacy masks (page 31).
    - Alarms and relays (page 32)
    - System startup (page 33)
      - Password protection
      - Installation date
      - Power-up action
      - Position reporting

Top-level access and information screens

When you access the UltraView PTZ series, the following three menus display:

Password. The camera will come from the factory with the default password turned off, but saved in memory. See *Passwords* on page 42 for details. If you have previously input some information to set up the camera and have passwords enabled, you will be prompted to enter your password (*Figure 3*) to proceed. Use the directional buttons to navigate to the numbers, and press **iris +** to input those numbers. Input the wrong password and you will automatically exit the menu. If the password is correct, you will proceed to the *Product information* screen.

Figure 3. Password screen



Product information. This screen (*Figure 4*) provides product information, including:

- Product name
- Camera type
- Site ID number
- Unit serial number
- Installation date (This should be set by the installer.)
- Video format
- Protocol

There are no customizable options on this screen. Go to the next screen by pressing **fast forward** on the keypad.

Figure 4. Product information for UltraView PTZ

System information. This screen (*Figure 5*) provides information pertaining to the current software, hardware, and installation information.

P = Type and version date for the *pan* processor.

T = Type and version date for the *tilt* processor.

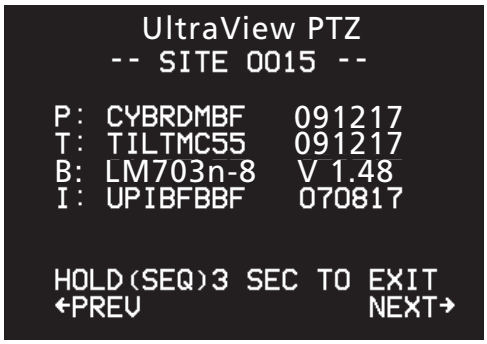
B = Camera type and firmware version.

I = Type and version date for the housing card.

Note: If you see no type and version date info, verify proper connections, mounting, and presence of the housing card.
If there is no housing card, you will see the message, "I: NOT INSTALLED."

There are no customizable options on this screen. Go to the next screen by pressing **fast forward** on the keypad.

Figure 5. System Information for UltraView PTZ

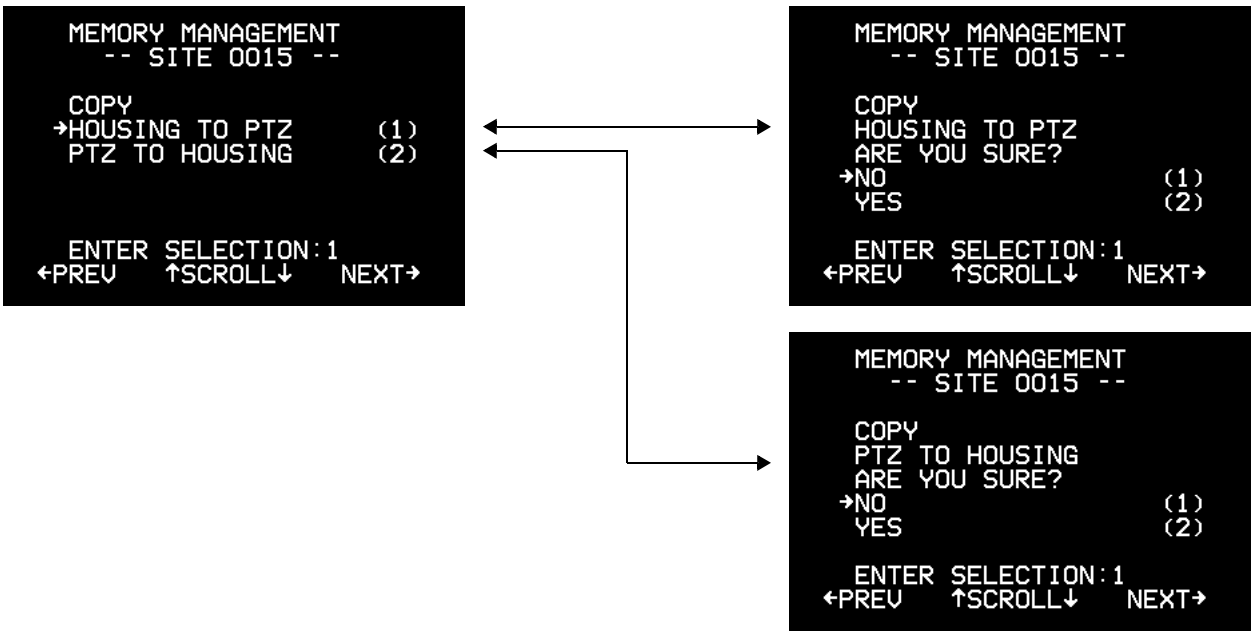


Memory management

If the settings stored in the memory of the housing differ from the settings stored in the memory of the camera (PTZ), *Memory* will flash on your monitor. When you log on, you will see the *Memory management* menu (*Figure 6*) asking you to choose which settings you want. The settings you choose overwrite any existing settings. Until you decide which settings to use, the unit will use the settings stored in the camera. Once the settings have been successfully transferred, *Memory* will stop flashing on the monitor.

The *Memory management* screen appears after the *System information* screen in the menu sequence. So if the memory message is flashing, the menu order will be *Product information, System information, Memory management, Program select*.

Figure 6. Memory flashing menu

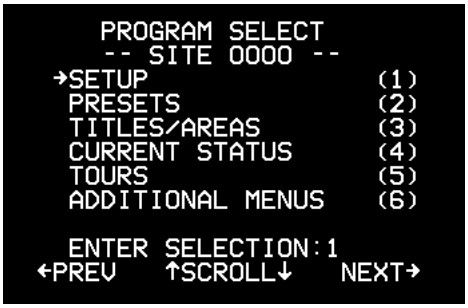


Note: DIP switch settings on the camera can be set to automatically copy the settings from the housing, or push the settings from the camera to the housing. See the *UltraView PTZ Installation Manual* for more information.

Program select

The *Program select* menu (*Figure 7*) is where you will find the bulk of the UltraView PTZ configuration menus.

Figure 7. Program select menu



The submenus on the *Program select* menu are as follows:

- *Setup* on page 8
- *Presets* on page 20
- *Titles/areas* on page 21
- *Current status* on page 26
- *Tours* on page 27
- *Additional menus* on page 31

Use the *Program select* menu (*Figure 7*) to choose which of these submenus you wish to change. To access a particular submenu, either press the number associated with it, or navigate to the desired submenu and press the fast forward button on the keypad.

Setup

Use the setup menus to restore factory default settings, adjust the camera, and adjust system settings. Previously stored settings in the camera (PTZ) and housing nonvolatile memory will be overwritten.

Clear memory

Clear certain settings and information and return to factory default settings (*Figure 8*):

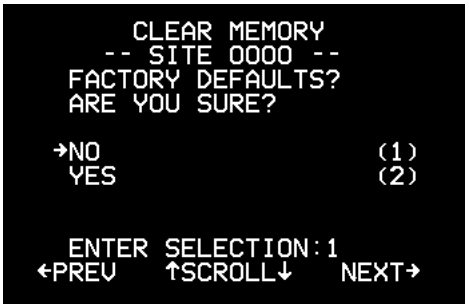
1. Select options 1, 2, 3, 4, 5, or 6 to clear the memory for the indicated feature. You can also press **iris+** and select the option you wish to clear.

Figure 8. Clear memory

2. To confirm the restoration of factory defaults (*Figure 9*) for the feature chosen on the previous menu, do one of the following:
   - Select option **1** to keep the current settings.
   - Select option **2** to delete the current settings and reload the factory default settings.

This process may take some time. The screen will update with an estimated time counter.

Figure 9. Clear memory confirmation



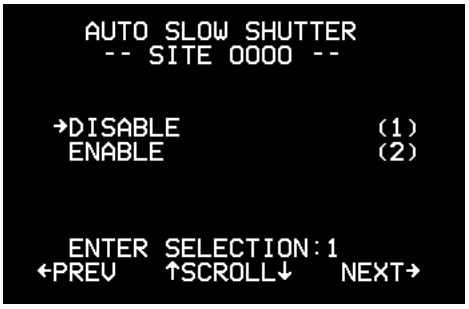
Automatic slow shutter

Enable or disable the autoslow shutter feature (*Figure 10*) to slow down the shutter speed of the camera for better image quality in dark environments.

Note: This feature is disabled by default and is only available on cameras with day/night capability.

See *Exposure control* on page 36 for more information about light settings.

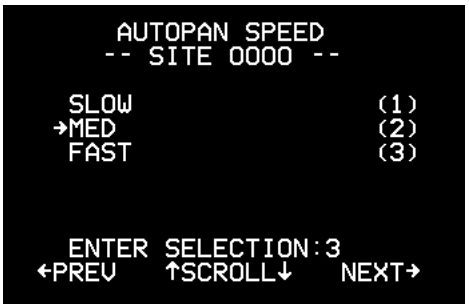
Figure 10.Autoslow shutter menu



Autopan speed

Select the speed at which the camera automatically pans. Use the joystick or number pad to choose from three speed settings: *slow*, *med* (default), or *fast (Figure 11)*.

Figure 11.Autopan speed menu



Auto Return

Set the camera to automatically return to an activity after a period of inactivity, to a *home* position (preset 000), a specific preset, a preprogrammed tour, or autopan mode (*Figure 12*). This feature is disabled by default.

- To disable the autoreturn feature, select option 1. Default is Disable.
- To automatically return to the home position (preset 000), select option **2**.
- To automatically return to a preset position, select option 3, press **iris +**, and choose the preset to return to.
- To automatically return to a preprogrammed tour, select option 4, press **iris +**, and choose the preprogrammed tour you want to return to.
- To automatically return to autopan, select option 5.

If you choose to autoreturn to a certain setting, set the period of inactivity (return time) referenced in the *Autoreturn* menu (*Figure 13*). Access the time selection option by pressing the joystick after selecting any option other than *Disable*.

The minimum return time is 15 seconds. The maximum return time is 60 minutes. Use the joystick to increase or decrease the return time for items **2** through **5** in the following increments:

- Increments of fifteen seconds to increase the return time from 15 to 60 seconds.
- Increments of one minute to increase the return time from one to ten minutes.
- Increments of five minutes to increase the return time from ten to 60 minutes.

Azimuth indicator

Enable a direction indicator to be displayed on the monitor/screen (*Figure 14*).

- To disable the azimuth indicator select option **1**. (The default setting is 1, *Disable*.)

Figure 12.Autoreturn menu

Figure 13.Autoreturn timer

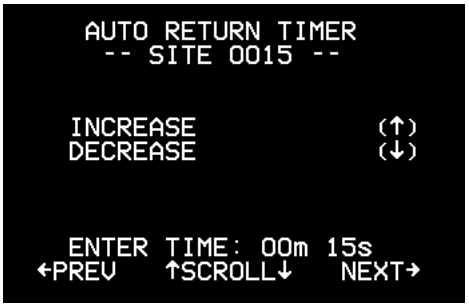
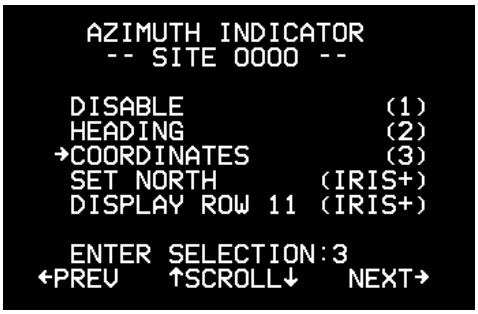


Figure 14.Azimuth indicator menu



- To enable the azimuth indicator to show the heading (N, NE, E, SE, S, SW, W, or NW), select option **2** and use the joystick to move through the heading options (*Figure 15*).

Figure 15.Azimuth indicator menu: Set heading

- To enable azimuth indicator to show the pan, tilt, and zoom coordinates, select option **3** and use the joystick to select numerical settings for P (pan), T (tilt), and Z (zoom) (*Figure 16*).

Figure 16.Azimuth indicator menu: Set coordinates

To calibrate the indicator (*Figure 17*), do the following:

1. Select *set north*, and press **iris +**.
2. Move to the desired position for north and press the **iris +** button. Press the **iris -** button to cancel.

Figure 17.Azimuth indicator: Set north

To set where on the screen/display the indicator displays (*Figure 18*), do the following:

1. Select *display row*, and press **iris +**.
2. Set the row between *01* (the heading default) and *11* (the NTSC coordinate default; *14* is the default for PAL) by using the joystick to navigate to the desired number and press **iris +**.

Figure 18.Azimuth indicator: Display row option

Day/night switch

Set the method by which the camera's infrared filter automatically switches in and out at dawn and dusk (*Figure 19*).

- Select option **1**, to disable the day/night switch.
- Select option **2** to use the KTD-405 keypad to manually activate the switch.
- Select option **3** to switch based on a sensor in the camera.
- Select option **4** to switch based on a sensor on the PTZ tilt arm (default).

Note: This menu will only be present if the camera supports day/night switching.

If you select the PTZ tilt arm sensor, you'll have to indicate at which level you want the switch to happen (*Figure 20*). The light level switch point is adjustable, but should be set only during dawn/dusk conditions.

See *Exposure control* on page 36 for more information about light settings.

Figure 19.Day/night switch menu

Figure 20.Day/night switch level choices

Electronic zoom

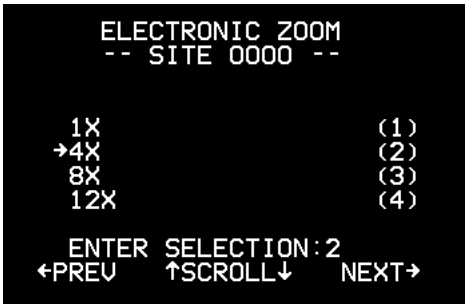
Set the electronic zoom on the camera. Electronic zoom is sometimes called digital zoom and indicates how much zoom the camera's software can add to the optical limit.

The maximum optical zoom limit will be multiplied by the electronic zoom setting to increase total zoom. For example, if the camera is capable of 27X, with the factory default setting of 4x (*Figure 21*), the camera will be able to digitally zoom in up to 108X.

Note: Electronic zoom may degrade image quality.

To deactivate electronic zoom, choose option **1** for 1X.

Figure 21.Electronic zoom menu



Exposure control

Set the method the camera uses to adjust to different light levels (*Figure 22*).

- Select option **1** to enable the camera to automatically adjust to different light levels.The **iris +** button toggles the shutter speed (see *Figure 30* on page 16 and *Figure 31* on page 16), and the **iris -** button toggles backlight compensation for image enhancement.
- Select option **2** for manual control of the iris using the **iris +** and **iris -** buttons.
- Select option **3** to allow manual control of the iris, with return to automatic mode upon pan/tilt movement (default).

See *Exposure control* on page 36 for more information about light settings.

Figure 22.Exposure control menu

Image freeze

Sets whether the most recent camera image will freeze on the screen while the camera is traveling to a manual preset. Enabling *Image freeze* (*Figure 23*) causes the camera to freeze the last image while the camera is moving and display a static image on the monitor until the camera stops. Disabling the image freeze causes the camera to display live video as the camera moves to the preset location.

- Select option **1** to disable (Default).
- Select option **2** to enable. Fast speed is used when image freeze is enabled and overrides the preset speed setting.

Note: This menu will only be present if the camera supports day/night switching.

Figure 23.Image freeze menu

Image stabilization

Image stabilization reduces blurry camera images caused by camera shake.

- Select option **1** to disable (Default).
- Select option **2** to enable.

Note: This feature can degrade video performance. It is recommended that it is used with a static picture where pan and tilt motion is not used. An example would be a preset tour with Image Freeze enabled.

Figure 24.

Lens initialization

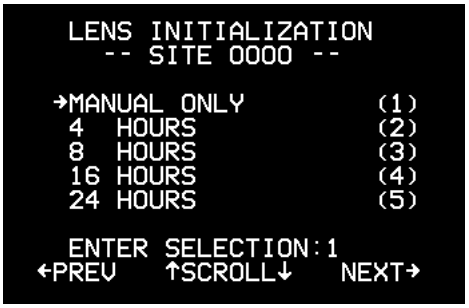
Set the duration between automatic camera lens initializations (*Figure 25*). During lens initialization 27X and 37X cameras will zoom in and zoom out while displaying "Lens Init" on the video screen. This is a normal function that is performed in order to maintain lens focus accuracy over prolong periods of time.

When you set the lens initialization time and then reset power to the PTZ, the lens initialization will trigger at the set time. However, if the PTZ is not power cycled after setting the lens initialization time then the lens initialization time will trigger any time within the last hour of the timer setting. For example, if the lens initialization time is set to 4 hours and power is not cycled to the unit, the lens initialization may trigger any time between three hours one minute and three hours 59 minutes. In other words, lens initialization time occurs any time within a one hour window of when it was set regardless of the time interval selected.

If you are running a *ShadowTour,* lens initialization every 24 hours is recommended.

- Select option **1** to initialize the lens manually (Default). Manual initialization works only if you are using a KTD-405 keypad and press the key sequence *Esc* (hold) and *Alarm*.
- Select options **2** to **5** to set the duration between automatic lens initializations.

Figure 25. Lens initialization menu



Lift/gain

Lift optimizes the video's color over long runs of coaxial cable.

To set the lift value, do the following:

1. Navigate to *Lift (0-7).*
2. Press **iris +**.
3. Move the joystick up to increase the lift and down to decrease the lift. Choices range from 0 to 7. Default is 0.

Figure 26.Lift/gain menu

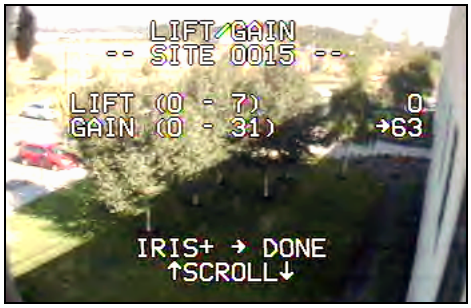
Gain optimizes the video's brightness over long runs of coaxial cable (*Figure 27*). Gain increases the video signal's amplitude to increase the brightness of darkened video and to reduce the noise of weakened video. Use the joystick to adjust the gain. Up increases and down decreases the gain.

To set the gain value, do the following:

1. Navigate to *Gain (0-31).*
2. Press **iris +**.
3. Use the joystick up to increase the gain and down to decrease the gain. Range is 0 to 31. Default is 0.

CAUTION: Lift and gain compensate for long runs of video coaxial cable. Only qualified personnel should adjust these settings. Incorrect adjustments can impair video quality.

Figure 27.Changing gain settings



Max tilt/pan speed

Use this to set the maximum manual control pan and tilt speed.

To set the pan and tilt speed, do the following:

1. Select the setting you want to change (pan—as shown in *Figure 28*—or tilt).
2. Press **iris +**.
3. Use the joystick to set the tilt speed from *20* to *120* (Default). The pan speed setting is 20 to 200 (Default 120.)
4. When finished, press **iris +**.

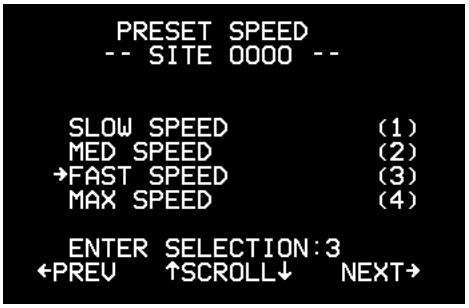
Note: The units of measure used for this feature are in degrees per second.

Figure 28.Setting pan speed

Preset speed

Set the speed at which the camera travels between presets (*Figure 29*). This setting is used when calling up presets manually. Use the joystick to set the four speed settings: *slow, med, fast* (default), or *max*.

Figure 29.Preset speed menu

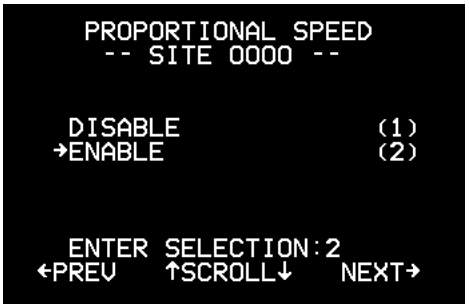


Proportional speed

The proportional speed feature (*Figure 30*) decreases the pan/tilt speed of the camera to provide better tracking when the camera is zoomed in. This helps reduce pan/tilt overshoot when zooming in on objects far from the camera.

- Select option **1** to disable proportional speed.
- Select option **2** to enable proportional speed (Default).

Figure 30.Proportional speed menu

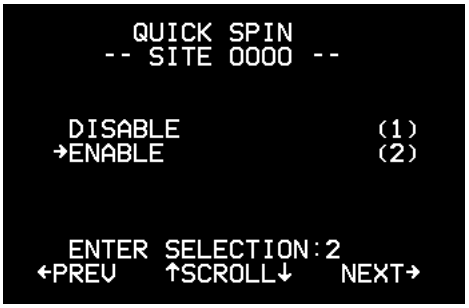


Quick spin

Quick spin (*Figure 31*) automatically rotates the camera 180 degrees when the bottom tilt limit is reached. This feature enables tracking of a target passing directly under the camera.

- Select option **1** to disable quick spin.
- Select option **2** to enable quick spin (Default).

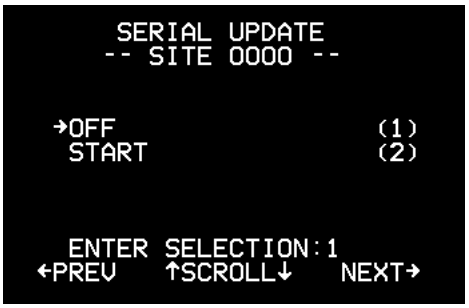
Figure 31.Quick spin menu



Serial update

This menu lets you update the firmware in your UltraView PTZ camera. For details, contact technical support. (See *Contacting us* on page 40.)

Figure 32.Serial update menu



Shutter speed

Select the shutter speed by choosing the number that corresponds with the desired speed for either NTSC (*Figure 33*) or PAL (*Figure 34*) camera.

During pan/tilt operation, shutter speed is controlled automatically by the camera. To use the settings in the *Shutter speed* menu during live video, press the **iris +** button. Press **iris -** or move the camera to return the settings to automatic (Auto is default).

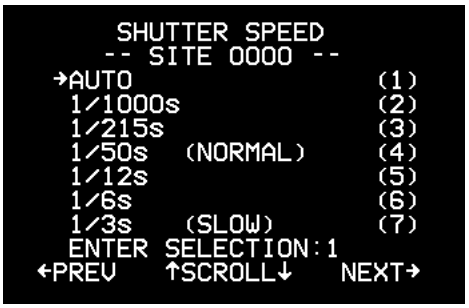
Note: When you set the shutter speed to anything other than automatic, the setting will override the manual return to autoiris control, making the iris always fully automatic.

While the camera is moving in low light conditions, enable *Autoslow shutter* so that shutter speed can be adjusted to enhance the video image.

See *Exposure control* on page 36 for more information about light settings.

Figure 33.Shutter speed menu (NTSC)

Figure 34.Shutter speed menu (PAL)



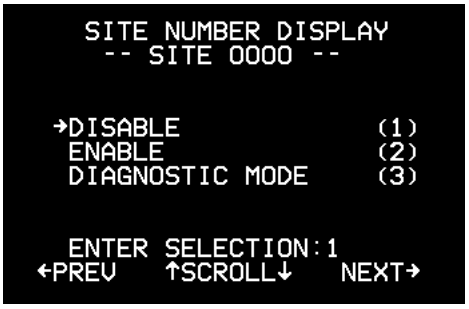
Site number display

Enable or disable the display of the camera site number in the upper left-hand corner of the monitor screen (*Figure 35*).

- Select option **1** to disable site number display.
- Select option **2** to enable site number display.
- Select option **3** to enter diagnostic mode.

Note: When you re-enter the menus after being in live mode, the diagnostics mode is automatically turned off. So when you exit from the first menu and return to live view, the diagnostics will not display. Diagnostics is a temperary setting that displays raw pan, tilt, zoom, and protocol selected information on your live video screen. This information is intended for use when contacting technical support.

Figure 35.Site number display menu



Synchronization

Set the video signal to be synchronized either to the AC input frequency (line lock) or to the camera's internal clock (*Figure 36*).

Select option **1** to select line lock. If you want to enable this feature, press the **set** button. Press **iris+** to engage line lock. You may need to wait several seconds for synchronization to be completed and to return to the confirmation menu.

Note: If after pressing the **set** button, your menus disappear, press the **iris -** button to escape out of this setting. The setting will go back to option 2.

Select option **2** to set the video signal to the camera's internal crystal (default).

Adjusting the vertical phase (*Figure 37*) requires an oscilloscope or a KTS-56 phase adjustment tool.

Figure 36.Synchronization menu

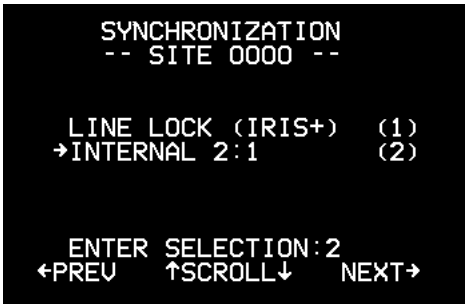
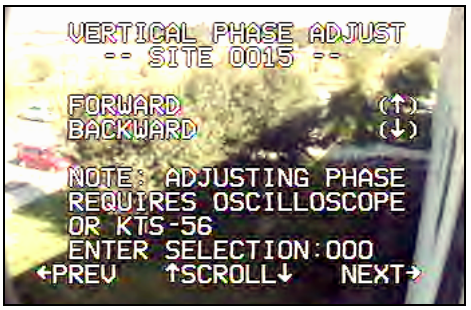


Figure 37.Vertical phase adjust

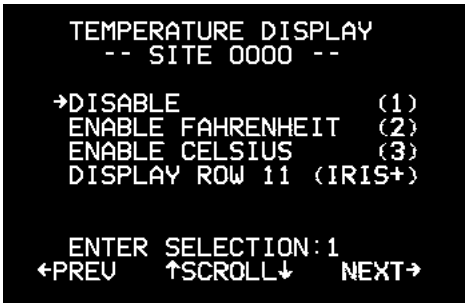


Temperature display

Show the temperature on the screen (*Figure 38*).

- Select option **1** to disable temperature display (Default).
- Select option **2** to enable temperature display, showing Fahrenheit.
- Select option **3** to enable temperature display, showing Celsius.

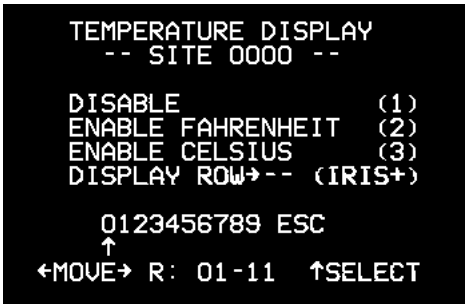
Figure 38.Temperature display



To set the display area (*Figure 39*), do the following:

1. Navigate to the fourth option, *Display row.*
2. Press the **iris+** key.
3. Use the joystick to navigate to a number between 01 and 011 (NTSC) or 014 (PAL).
4. Press the **iris +** to set the row.

Figure 39.Setting display area



White balance

Select the method by which the camera shifts its output colors to compensate for the color of a light source.

- Select option **1** for automatic white balance (Default is Auto).
- Select option **2** for ATW.
- Select option **3** for a static indoor setting.
- Select option **4** for a static outdoor setting.
- Select option **5** to make manual adjustments.

If you select **5**, the *Manual wbal adjust* menu (*Figure 41*) displays. Press **iris +**, then use the joystick to modify white balance to the desired setting. Press **iris +** again to save.

- Up and down adjusts the blue level in the picture.
- Left and right adjusts the red level in the picture.

Figure 40.White balance menu

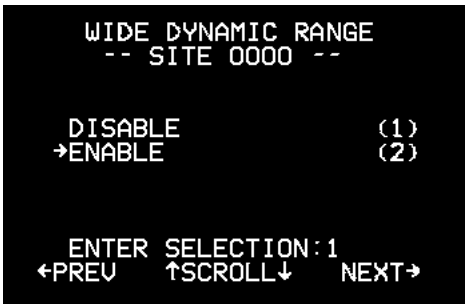
Figure 41.Manual white balance menu

Wide dynamic range (WDR)

Wide dynamic range technology allows you to see details of objects in shadows or details of objects in bright areas of frames that have high contrast between light and dark areas. When enabled, the camera can automatically detect when the WDR feature should be used.

- Select **Disable** to turn this feature off in the camera (Default).
- Select **Enable** to turn this feature on in the camera.

Figure 42.Wide dynamic range menu



Zoom speed control

Select the speed at which the camera will zoom (*Figure 43*).

- Select option **1** for variable speed (Default).
- Select option **2** for a slow fixed speed.
- Select option **3** for a medium fixed speed.
- Select option **4** for a fast fixed speed.

Not all keypads support variable speed. If you are not using the right protocol or connection, the setting will default to medium-fast speed.

Figure 43.Zoom speed control menu

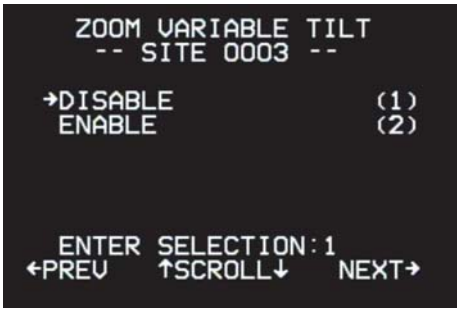
Zoom variable tilt

Enable or disable to limit the camera tilt function. When disabled this feature prevents the dome housing from appearing in the video image during operation at 1X electronic zoom (*Figure 44*). The tilt function is then limited to between 0 and 79 degrees at 1X electronic zoom. However, when the electronic zoom is increased to 6X, the full tilt travel of 90 degrees becomes functional.

- Select option **1** to disable full tilt travel at 1X electronic zoom (Default).
- Select option **2** to enable full tilt travel of 90 degrees for all electronic zoom levels.

Note: This feature is automatically disabled when setting presets or shadow tours.

Figure 44.Zoom variable tilt menu



Presets

UltraView PTZ cameras can store up to 129 preset positions (numbered 0 to 128). To enter preset positions, do the following:

1. From the *Program select* menu, navigate to option **2** and pan right. The *Preset programming* menu displays (*Figure 45*).
2. Move the camera to the desired position.
3. Press the **iris +** button.
4. Enter a three-digit number to indicate the preset position (000 to 128). The lowest unused preset number will display automatically.

   Note: Preset numbers 62 and 63 are reserved for autopan limit settings but can be used as regular presets.

   A message displays for two seconds to confirm that the preset position has been stored.
5. Repeat steps 3 through 5 for all additional preset positions to be stored.
6. Press **iris-** to return to the *Program select* menu.

   Note: When setting preset outside of the menus you can only set presets 1 to 127.

Figure 45.Preset programming menu

Titles/areas

Under the titles/areas menu, you can set titles for preset positions, areas, the camera, and tours. Here are the available characters:

(Space), /, up arrow,), down arrow, (, Z to A, +, ?, >, -, <, ;, :, 9 - 0, z to a

Joystick up arrow = counterclockwise

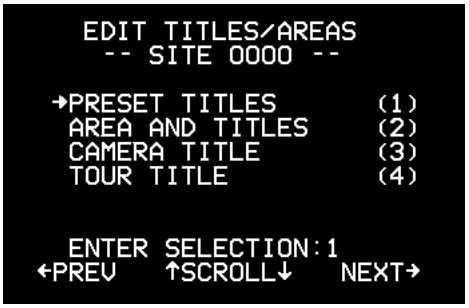
Joystick down arrow = clockwise

Preset titles

To assign onscreen titles for any of the 128 preset positions, do the following:

1. From the *Program select* menu, navigate to option **3** and pan right. The *Edit titles/areas* menu displays (*Figure 46*).

Figure 46.Edit titles/areas menu



2. Navigate to option 1 and pan right. The *Preset titles* menu displays (*Figure 47*).

Figure 47.Preset titles menu

3. Enter the preset number (000 to 128) of the preset title to be edited. The *Title entry* menu displays (*Figure 48*).
4. You can move the display location for the title up and down onscreen. To set the location, confirm that the cursor (arrow) is under the preset number on the left. Use the joystick to move the position of the title up and down. The title cannot be moved from left to right.
5. To enter or edit the title, move the cursor to the right (inside the parentheses). Use the joystick to scroll up and down to the desired alphanumeric character.

   Note: You cannot edit a preset title on a preset that is not programmed.
6. When the title is set, press the **iris +** button to return to the *Preset titles* menu.
7. Repeat steps 4 through 7 for any additional titles, or press **iris -** to return to the *Edit Titles/Areas* menu.

Figure 48.Title entry menu

Area and titles

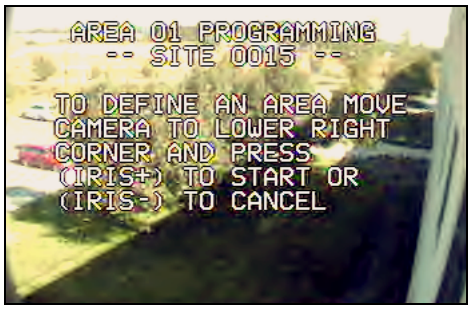
To program a titled area, do the following:

1. From the *Program select* menu, navigate to option **3** and pan right. The *Edit titles/areas* menu displays (*Figure 46* on page 21).
2. Navigate to option **2** and pan right. The *Assigning area titles* menu displays (*Figure 49*).

Figure 49.Assigning area titles menu

3. Use the keypad to enter the number (01 to 16) of the area to be programmed and titled. The *Area 01 programming* menu displays.

Figure 50. Area 01 programming menu



4. To define the boundaries of an area, use the joystick to pan/tilt the camera to the upper left corner of the desired area and press the **iris +** button.
5. Use the joystick to pan/tilt the camera to the lower right corner of the desired area and press the **iris +** button.
6. The *Title entry* menu displays (*Figure 51*).

Figure 51.Title entry menu

To assign and edit area titles, do the following:

1. Confirm that the cursor (arrow) is under the area ###.
2. To move the display location for the title up or down on the screen, move the joystick up or down. (The title cannot be moved left or right.)
3. To enter or edit the title, move the cursor to the right (inside the parenthesis).
4. Move the joystick up and down to scroll to the desired alphanumeric character. (See *Titles/areas* on page 21 for available characters.)
5. Move the joystick right and left to move to the next character or edit the previous character.
6. When the title is complete, press the **iris +** button to save the title and return to the *Assigning area titles* menu.
7. Repeat steps 3 through 5 of the previous process, and steps 1 through 6 of this process for any additional area titles. Otherwise, press **iris -** to return to the previous menu.

Note: To make the defined area blank, use '?' as the first character of the title. The title will display but not the video.

Camera title

UltraView PTZ models show a title for the camera. To set a title for the camera, do the following:

1. From the *Program select* menu, navigate to option **3** and pan right. The *Edit titles/areas* menu displays (*Figure 46* on page 21).
2. Navigate to option 3 and press **iris +**. The *Title entry* menu displays (*Figure 52*).
3. Confirm that cursor (arrow) is under the camera ### (three-digit number).
4. To move the display location for the title up or down on the screen, move the joystick up and down. (The title cannot be moved from left to right.)
5. To enter or edit the title, move the cursor to the right (inside the carets).
6. Move the joystick up and down to scroll to the desired alphanumeric character.
7. Move the joystick right or left to move to the next character or edit the previous character.
8. When the title is complete, press the **iris +** button to save the title and return to the *Edit Title/Areas* menu.

Note: Once the camera title is set, there are two ways to stop the title from displaying. Use '?' as the first character of the title, or erase the title (Clear All Titles) to set the title so it does not show.

Figure 52.Camera title entry

Tour title

UltraView PTZ models do not by default show a title when on a tour. To set a title for a tour, do the following:

1. From the *Program select* menu, navigate to option **3** and pan right. The *Edit titles/areas* menu displays (*Figure 46* on page 21).
2. Navigate to option 4 and pan right. The *Tour titles* menu displays (*Figure 53*).

Figure 53.Tour titles menu

3. Use the keypad to enter the number (1 through 8) of the tour to be titled and programmed. The *Tour title entry* menu displays (*Figure 54*).
4. Confirm that the cursor (arrow) is under the tour ###.
5. To move the display location for the title up or down on the screen, move the joystick up and down. (The title cannot be moved from left to right.)
6. To enter or edit the title, move the cursor to the right (inside the carets).
7. Move the joystick up and down to scroll to the desired alphanumeric character.
8. Move the joystick right or left to move to the next character or edit the previous character.
9. When the title is complete, press the **iris +** button to save the title and return to the *Tour titles* menu.
10. Repeat steps 3 through 9 for any additional titles you wish to set or edit. Otherwise, press **iris -** to return to the *Edit titles/areas* menu.

Note: To display the tour title remove the ? as the first character. A question mark as the first character in a title will make the title blank.

Figure 54.Tour title entry menu

Current status

To review the current settings for your PTZ camera, select option **4** (*Current status*) from the *Program select* menu and pan right. UltraView PTZ cameras with preset and area features have status menus that show programmed presets and programmed areas by putting an *X* next to them in the menu.

Figure 55 shows typical *Setup status* screens. Use the joystick to page up and down through the screens. To return to the last status screen, press **iris -**. You cannot add/change settings from these status screens.

Figure 55.Status menus

Note: If the camera does not support an option, it is not displayed on the status page.

Tours

Tours 1, 2, 5, and 6 in the PTZ programming menu are ShadowTours. Tours 3, 4, 7, and 8 in the PTZ programming menu are preset tours.

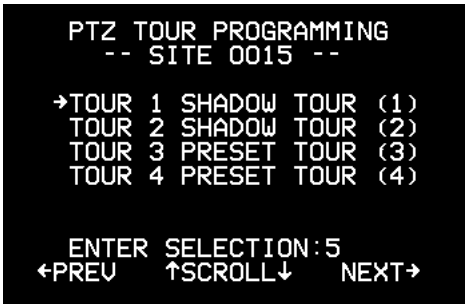
ShadowTours

UltraView PTZ cameras have ShadowTour capability. A ShadowTour is a tour that a PTZ camera “learns” by recording up to five minutes of manual PTZ operation. Use a keypad to manually direct your camera through the desired PTZ movements, and the camera stores in memory the movements you performed. This recorded tour can be replayed at any time.

To program a new ShadowTour, do the do the following:

1. From the *Program select* menu, select option **5**.
2. From the *PTZ tour programming* menu, pan right with the joystick to advance to the menu that displays ShadowTours (*Figure 56*).
3. Select the tour you want to create by pressing Iris+ to enter the tour programming menu.

Figure 56.PTZ tour programming (ShadowTours)


PTZ TOUR PROGRAMMING
-- SITE 0015 --
→TOUR 1 SHADOW TOUR (1)
TOUR 2 SHADOW TOUR (2)
TOUR 3 PRESET TOUR (3)
TOUR 4 PRESET TOUR (4)
ENTER SELECTION:5
←PREV ↑SCROLL↓ NEXT→

4. Select **1** to choose *New tour* (*Figure 57*).
5. Press **iris +** to start the timer.
6. Move the PTZ camera through the desired movements.
7. Press **iris +** to exit back to the *PTZ tour programming* menu.
8. Repeat steps 2 through 8 for more ShadowTour programming. Otherwise, press **iris-** until you exit back to the *Program select* menu.

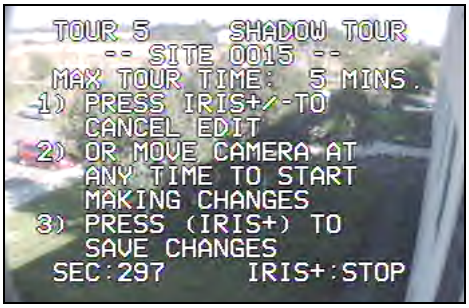
Figure 57.ShadowTour programming menu

To edit a previously programmed ShadowTour, do the following:

1. From the *Program select* menu, select option **5**.
2. From the *PTZ tour programming* menu, pan right with the joystick to advance to the menu that displays ShadowTours (*Figure 56* on page 27).
3. Select the tour you want to edit.

4. Select **2** to edit the tour (*Figure 58*).
5. The tour will start to play. Use the joystick to edit the tour at any point. From that breakpoint, only the new movements will be saved and all previously saved tour movements will be lost. To exit, without modifying the tour, press **iris -** before moving the joystick.
6. When you finish editing, press **iris +** to return to the ShadowTour menu.
7. Repeat steps 3 through 6 to edit other ShadowTours.

Figure 58.Edit ShadowTour



To play an existing ShadowTour, do the following:

1. From the *Program select* menu, select option **5**.
2. From the *PTZ tour programming* menu, pan right with the joystick to advance to the menu that displays ShadowTours (*Figure 56* on page 27).
3. Select the tour you want to play.
4. Select **3** to play the tour (*Figure 59*).
5. The tour will play indefinitely until stopped by a key or joystick movement.
6. Press **iris-** to exit back to the *PTZ tour programming* menu.
7. Repeat steps 3 through 6 to play other ShadowTours.

Figure 59.Play ShadowTour

To delete a ShadowTour, do the following:

1. From the *Program select* menu, select option **5**.
2. From the *PTZ tour programming* menu, pan right with the joystick to advance to the menu that displays ShadowTours (*Figure 56* on page 27).
3. Select the tour to be deleted.

4. Select **4** to delete the tour (*Figure 60*). A *Please wait* message displays.
5. Press **iris -** to exit back to the *PTZ tour programming* menu.
6. Repeat steps 2 through 5 to delete any other ShadowTour.

Figure 60.Delete ShadowTour

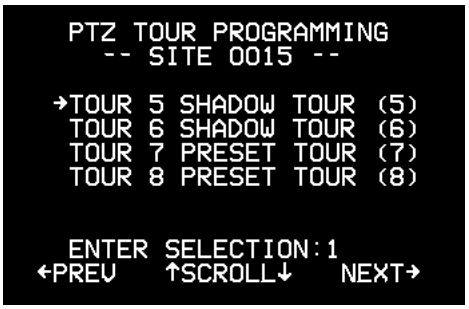
Preset tours

UltraView PTZ cameras have preset tour capability. A preset tour is composed of a group of preset positions that the operator can program to be linked together in a sequence. Each tour consists of a string of up to 64 steps, or presets, which are programmed by the user.

To create a preset, do the following:

1. Navigate to option 5 on the *Program select* menu and pan right. The *PTZ tour programming* menu displays (*Figure 61*).

Figure 61.PTZ tour programming for preset tours


PTZ TOUR PROGRAMMING
-- SITE 0015 --
→TOUR 5 SHADOW TOUR (5)
TOUR 6 SHADOW TOUR (6)
TOUR 7 PRESET TOUR (7)
TOUR 8 PRESET TOUR (8)
ENTER SELECTION:1
←PREV ↑SCROLL↓ NEXT→

2. Select the tour to be edited. The *Tour programming* menus (*Figure 62*) display.
3. Navigate to option 1 and pan right to edit the tour.

   Edit Tour (1)

   Play Tour (2)
4. Navigate through and use **iris +** to set the *preset*, *position*, *dwell time*, *speed*, *zoom*, and *TTL* (*Figure 62* on page 29).

Figure 62.Tour programming menus

5. For each step programmed, the following information must be entered:
   - The preset number (0 to 128).
   - The dwell time at each step (1 to 31 seconds). The default dwell time is 2 seconds.
   - The speed at which the camera moves between presets. There are three speed settings: SLW (slow), MED (medium), and FST (fast). Press the **iris +** to cycle through the speed settings.
   - The zoom level (freeze (FZ) or zoomed out (ZO) or normal (--)).
   - The title (TTL) (on or off).
6. To finish programming a tour, select the step number and press the **iris -** key. The *PTZ tour programming* menu displays.

   Note: If the step number is not selected, pressing the **iris -** key will delete the step.

7. Navigate to option **2** to play the tour, to verify, and press the **iris +** to exit back to the previous menu.

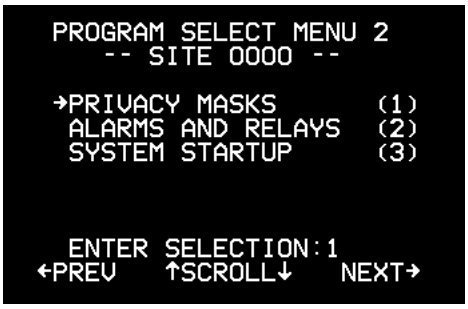
To better understand preset tour programming, review the following abbreviations:

- ST = Step of the preset. May have up to 64 presets and must be set for a preset tour.
- POS = Preset number assigned to that step of the tour.
- DW = Dwell time, or amount of time the position is held before moving.
- SPD = Speed that the camera travels to the next preset.
- ZM (also FZ or ZO) = Freezes the last image while moving to the next preset. ZO zooms out first, moves to the next preset, then zooms to the preset number’s zoom factor.
- TTL = Turns the preset title on or off.

Additional menus

Selecting the *Additional menus* option from the *Program select* menu displays the *Program select menu 2* screen (*Figure 63*).

Figure 63.Program select additional menus



27X and 37X camera models

The *Privacy mask, Alarms and relays,* and *System startup* are submenus of *Program select menu 2*.

Privacy masks

If you have an 27X or 37X camera, you can set privacy masks that hide certain areas from view.

To set a privacy mask, do the following:

1. From the *Program select* menu, select **6** to go to *Additional menus*.
2. From *Program select menu 2*, select **1**. The *Privacy masks* menu displays (*Figure 64*).
3. Select the letter of the mask you want to create or edit (A through H).
4. Pan right with the joystick to proceed.

Figure 64.Privacy mask

5. Center the crosshairs on the center of the area you want to mask off and press the **iris +** button (*Figure 65*).

Figure 65.Privacy mask set

6. Using the joystick, set the size of the mask by pushing up or down to increase or decrease the vertical size of the mask (*Figure 66*), or left or right to increase or decrease the horizontal size of the mask.
7. When finished, press **iris +** again to set the mask and return to the *Privacy masks* menu.
8. Repeat steps 3 through 7 for additional masks.

Figure 66.Privacy mask adjust

Alarms and relays

The alarms and relays menu lets you program presets for alarms and program relays, and set alarm reporting.

Note: Alarms are available only when using a UPIB housing card.

Alarm programming

To set an alarm preset, do the following:

1. Select **1** from the *Alarms and relays* menu. The *Alarm programming* menu displays (*Figure 67*).
2. Use the joystick to select alarms 01 through 04 and press **iris+** to set a preset number that corresponds with the alarm.

Figure 67.Alarm programming menu

To set alarm reporting, do the following:

1. Select **2** from the alarms and relays menu. The *Alarm reporting* menu displays (*Figure 68*).
2. Enter selection **1** to disable (the default) or **2** to enable.

Figure 68.Alarm reporting menu

To set a relay, do the following:

1. Select **2** from the *Alarms and relays* menu. The *Relay programming* menu displays (*Figure 69*).
2. Use the joystick to select an alarm number 01 through 04 and press **iris+** to choose a relay.
3. Press **iris+** again to set a delay time for the relay.

Figure 69.Relay programming menu

System startup

The system startup menu allows you to enable, disable, and change passwords, as well as set the installation date, set an action on power-up, and set position reporting.

Passwords

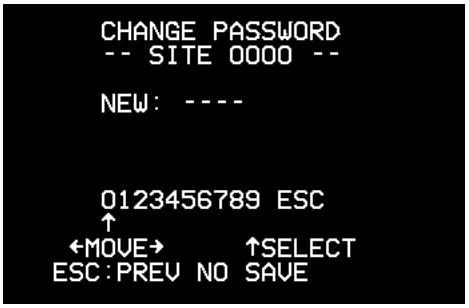
To change the password from the default of *3477*, do the following:

1. From *Program select menu 2*, select *System startup*. The *Password protection* menu displays (*Figure 70*).

Figure 70.Password protection

2. Select **3**. The *Change password* menu displays (*Figure 71*).
3. Using the number selecting line, enter four numbers for your password.
4. Enter those same numbers again when prompted.
5. *Password saved* is displayed onscreen, and the menu exits back to the *Password protection* menu (*Figure 70* on page 33).

Figure 71.Change password menu



To enable passwords, do the following:

1. From *Program select menu 2*, select *System startup*. The *Password protection* menu displays.
2. Select **2**.

You have now enabled passwords, which means when you log onto the camera with a controlling device, you'll need to enter that password to access any programming.

To disable passwords, do the following:

1. From *Program select menu 2*, select *System startup*. The *Password protection* menu displays.
2. Select **1**.

You have now disabled passwords. Anyone can access the camera's programming without a password.

CAUTION: If you change the password from the default, when you select *Password disable*, the password is changed back to the default automatically. So, if you ever reenable passwords, make sure to change the password again, or remember that the password is the default password (3477).

Installation date

To customize your installation date, do the following:

1. From *Program select menu 2*, select *System startup*. The *Password protection* screen displays.
2. Using the joystick, pan right, past the *Password protection* screen. The *Installation date* menu displays (*Figure 72*).
3. Press **iris +** to edit the date.
4. Using the joystick to navigate the number selection string, enter the installation date in *YY/MM/DD* format.
5. Once you have verified that it is the correct date, press **iris +** again to save the date.

Note: Once set, the installation date can only be cleared by doing a *Clear all* to reset to factory defaults.

Figure 72.Installation date menu

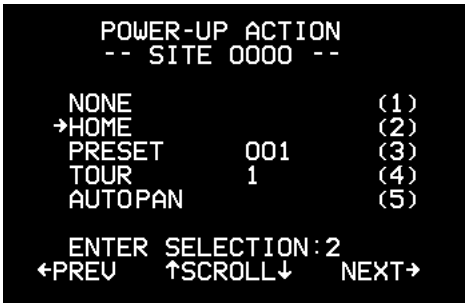
Power-up action

You can program the UltraView PTZ to perform a certain action when it first powers up. The power-up action default is home.

To set a power-up action, do the following:

1. From *Program select menu 2*, select *System startup*. The *Password protection* screen displays.
2. Using the joystick, navigate right, past the *Password protection* and *Installation date* screens, to the *Power-up action* screen (*Figure 73*).
3. Choose the action you want the camera to take when it first powers up.
   - Select **1** for none, or no actions.
   - Select **2** for home.
   - Select **3** for a specific preset. Press **iris +** to enter the three-digit-number (000 to 128) of the preset you want to use.
   - Select **4** for a specific tour. Press **iris +** to enter the one-digit number (1 to 8) of the tour you want to use.
   - Select **5** for autopan.

Figure 73.Power-up action menu



Position reporting

Position reporting provides the capability for a remote device to get pan, tilt, and zoom position information for doing analysis on the image data. This feature is only supported when the unit is in the Interlogix Impac RS-485 9600 protocol mode.

To set position reporting, do the following:

1. From *Program select menu 2*, select *System startup*. The *Password protection* screen displays.
2. Using the joystick, navigate right, past the *Password protection*, *Installation date*, and *Power-up action* screens, to the *Position reporting* screen (*Figure 74*).
3. Press **1** to disable, or press **2** to enable.

Figure 74.Position reporting menu

CAUTION: If more than one unit has the positioning reporting feature enabled and the units share the same control data line, enabling this feature may flood the RS-485 communication lines.

Exposure control

Exposure control for a UltraView PTZ is controlled through five different menus that affect the image exposure.

Automatic slow shutter. This feature only works when the camera is in day (color) mode. It extends the useful range of the color mode in dark situations and keeps the camera in color mode longer before having to switch to night mode.

Motion can become blurry when the shutter is set to autoslow. If manual shutter speed or iris is set, those settings will override the autoslow shutter setting.

Day/night switch. This switch controls when the camera switches to day or night mode (night mode displays black-and-white images with improved contrast and sacrificed clarity).

Autoslow shutter can be set to delay the switch to night mode until the lighting levels are very low. The Camera Sensor takes the *Autoslow shutter* setting into account when it switches to night mode. The Dome Sensor, however, does not, and must be manually adjusted towards the dark end of the settings to make the *Autoslow shutter* viable.

Exposure control (iris control). *Auto* mode enables *Backlight compensation* and disables manual control. *Manual* and *Manual return to auto* allow manual iris adjustments (or require them in *Manual only*), but can vary between different camera modules.

27X and 37X cameras: The camera is put into *Aperture priority* mode. *Aperture priority* means that the iris size remains constant at the set value, while the camera adjusts the shutter speed to compensate. When making initial adjustments, observe the effects of the shutter speed. The image will get much brighter or darker on subsequent adjustments, as the shutter speed becomes maxed.

The *Backlight compensation* feature tells the camera to adjust its total exposure (iris and shutter) to ignore the brightest areas of the image, and instead concentrate on darker areas. *Backlight compensation* doesn't have a separate menu, but is enabled by setting the iris (exposure control) to *Auto*.

One practical application of *Backlight compensation* enables you to see detail inside a room with a window on a bright day. The autoexposure will average all the light in the scene, so bright areas, such as windows, get greater weight, and the camera will adjust so you can see the bright area (outside). Backlight correction forces the camera to ignore areas of high brightness, so the rest of the scene (the inside of the building) will be properly exposed. You can see detail inside, but in the process the lighting at the window will be adjusted so seeing outside is not possible.

Shutter speed. This menu enables the option of using **iris-** to manually set the shutter speed of the camera, much in the way the iris is manually set above. For all day/night camera types, the camera is put in *Shutter priority* mode. The shutter speed is fixed, and the Iris will automatically adjust to compensate. Setting the shutter speed is always done with the *Manual/return to auto* menu option, where the shutter speed will remain fixed only as long as the camera is stationary. As soon as pan or tilt movements are made, the shutter speed returns to *Auto*.

Wide dynamic range. Wide dynamic range, which is a feature of the 27X and 37X cameras, overrides all image exposure settings except day/night switch). When *Wide dynamic range* is on, you should set exposure (iris) and shutter speed to automatic. Also, *Backlight compensation* should not be used in wide dynamic range mode; the feature allows you to see both dimly and brightly lit environments at the same time.

Chapter 2 Troubleshooting and support

This chapter provides information to help you troubleshoot problems and contact technical support in case you need assistance with your Interlogix equipment.

In this chapter:

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Common issues 38
Contacting us 40
Online 40

Troubleshooting

This section provides information to help you diagnose and solve various problems that may arise while configuring or using your Interlogix product and offers technical support contacts in case you need assistance.

Common issues

The following are the most common troubleshooting issues and their solutions:

- *I cannot control the camera.*

  This may be due to an incorrect address or a problem with RS-422 data lines. See the *UltraView PTZ Installation Manual* for information on how to correctly set the PTZ unit's address. If that does not resolve the matter, check the RS-422 data communication lines to the camera.

- *I can control the camera, but it is acting strangely.*

  This is likely a general failure. You can perform a restart from the controlling device, as long as you have control. To restart the camera, do the following:

  1. Switch the keypad to the camera site you wish to reset.
  2. Press and hold the **set** button until *Enter programming code* appears.
  3. Press **1**, **4**, **7**, **6**, **seq** on the keypad.
  4. You will see *Reset to defaults* appear in the keypad window. Press **iris +** to proceed.

     Note: Despite the term *Reset to defaults*, this action does not reset any settings on the camera. It will only restart the camera, as if you had cycled the power at the camera.

  5. Press **3** for camera.
  6. You will see *Reset camera X? Are you sure?* where *X* refers to the camera that the keypad was set to before entering **1**, **4**, **7**, **6**, **seq**. Press **iris +** to proceed. The camera will reset.

  If problems persist after restarting, there may be an issue with communication or power cables. Check the data communication lines and power to the camera.

- *I am having trouble programming a ShadowTour.*

  The protocol for specific mappings to keypads or functionality may be incorrectly addressed. Check the protocol tables in the *UltraView PTZ Installation Manual* and check the specific protocol or keypad documentation.

  For more information on how to program a Shadow Tour, see *ShadowTours* on page 27.

- *I cannot make the camera return to a tour or preset after a timeout period.*

  The protocol for specific mappings to keypads or functionality may be incorrectly addressed. Check the protocol tables in the *UltraView PTZ Installation Manual* and check the specific protocol or keypad documentation.

  Make sure the autoreturn is set up correctly. See *Auto Return* on page 10 for instructions.

- *I cannot program autopan functionality.*

  To set the speed and settings for autopan, see *Autopan speed* on page 9.

- *I cannot program a preset.*

  The protocol for specific mappings to keypads or functionality may be incorrectly addressed. Check the protocol tables in the *UltraView PTZ Installation Manual* and check the specific protocol or keypad documentation.

  You can program up to 128 presets in the UltraView PTZ. See *Preset tours* on page 29 for instructions.

- *How do I get the latest firmware for my UltraView PTZ camera?*

  To update the firmware with the latest *CyberDome_BF.ge* file, you will need to contact technical support.

Contacting us

For help installing, operating, maintaining, and troubleshooting this product, refer to this document and any other documentation provided. If you still have questions, contact us during business hours (Monday through Friday, excluding holidays, between 5 a.m. and 5 p.m. Pacific Time).

Table 2. Sales and support contact information

	Sales	Technical support
Phone:	**Toll-free:** 888.437.3287 in the US, including Alaska and Hawaii; Puerto Rico; Canada. Outside the toll-free area: 503.885.5700.	
E-mail		*techsupport@interlogix.com*
Fax	888.329.0331	888.329.0332

Note: Be ready at the equipment before calling.

Online

Another great resource for assistance with your Interlogix product is our online publication library. To access the library, go to our website at the following location:

http://www.interlogix.com[1]

1. Many Interlogix documents are provided as PDFs (portable document format). To read these documents, you will need Adobe Reader, which can be downloaded free from Adobe's website at *www.adobe.com*.

Appendix A Defaults and hazardous materials

This appendix provides a list of default settings.

In this appendix:

Defaults 42
Toxic and hazardous element levels 44

Defaults

The following table lists the defaults for each setting in the *Setup* menu on UltraView PTZ.

Table 3. Setup menu

Menu property	Default setting
Autoreturn	Disable
Autoslow shutter	Disable
Autopan speed	Medium
Azimuth indicator	Disable
Day/night switch	Dome sensor
Day/night switch level	5
Electronic zoom	4x
Exposure control	Manual/return to automatic
Image freeze	Disable
Image stabilization	Disable
Lens initialization	Disable
Lift	0
Gain	0
Max pan speed	120
Max tilt speed	120
Password Protection	Disable
Position Reporting	Disable
Power-up action	Home
Pressure warning	Disable
Preset speed	Fast speed
Proportional speed	Enable
Quick spin	Enable
Shutter speed	Automatic
Site number display	Disable
Synchronization	Internal 2:1
Temperature display	Disable
White balance	Automatic
Wide dynamic range	Disable

Table 3. Setup menu

Menu property	Default setting
Zoom speed control	Variable speed

Toxic and hazardous element levels

The levels for toxic and hazardous elements listed in this table apply to the following SKUs:

- CYH-4101, CYH-4201, CYH-4202, CYH-4301, CYH-4401, CYH-4402, CYH-4501, CYH-4502, CYH-4602, CYH-4701, CYH-5101, CYH-5201, CYH-5202, CYH-5301, CYH-5401, CYH-5402, CYH-5501, CYH-5502, CYH-5602, CYH-5701, CYP-1111, CYP-1121, CYP-1301, CYP-1302, CYP-1311, CYP-1312, CYP-1411, CYP-1412.

	Toxic or hazardous substances and elements 有毒有害物质或元素					
	Lead (Pb) 铅	**Mercury (Hg)** 汞	**Cadmium (Cd)** 镉	**Hexavalent chromium (Cr(VI))** 六价铬	**Polybrominated biphenyls (PBB)** 多溴联苯	**Polybrominated diphenyl ethers (PBDE)** 多溴二苯醚
Circuit boards 电路板	X	O	O	O	O	O
Motors 外壳	O	O	O	O	O	O
Plastics 支架	O	O	O	O	O	O
Hardware 硬件	O	O	O	O	O	O

X: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.

表示该有害物质至少在该部件的某一均质材料中的含量超出SJ11363-2006标准规定的限量要求。

0: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.

表示该有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006标准规定的限量要求下。